



## Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

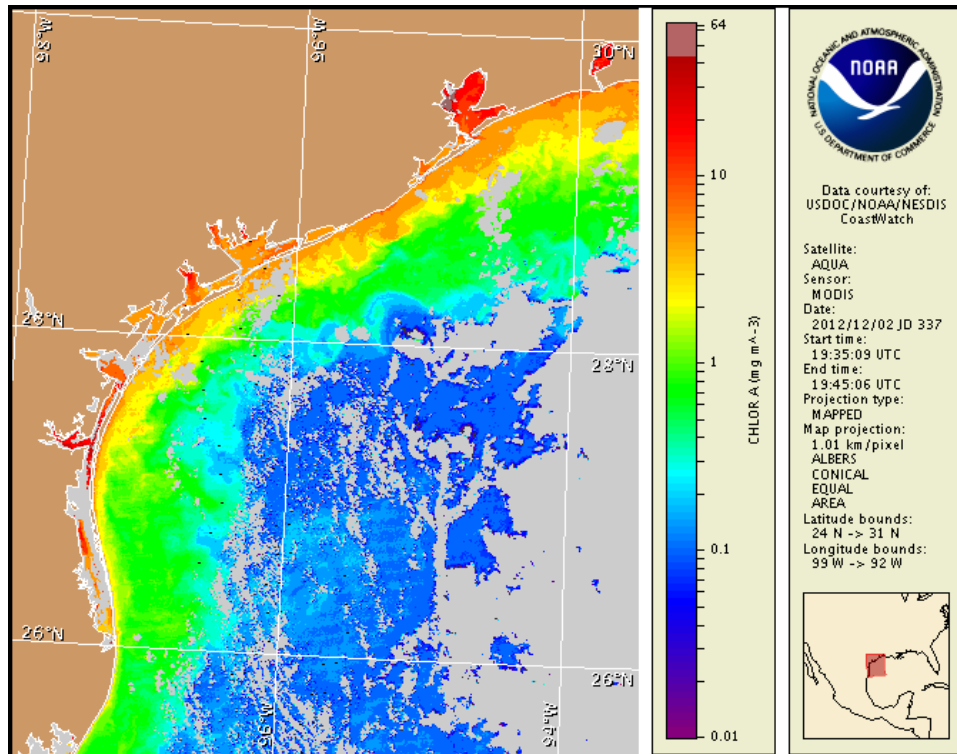
Monday, 03 December 2012

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, November 26, 2012



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s). Cell concentration sampling data from November 24 to 29 shown as red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

[http://tidesandcurrents.noaa.gov/hab/habfs\\_bulletin\\_guide.pdf](http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf)

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at:

<http://www.tpwd.state.tx.us/landwater/water/enviroconcerns/hab/redtide/status.phtml>

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive:

<http://tidesandcurrents.noaa.gov/hab/bulletins.html>

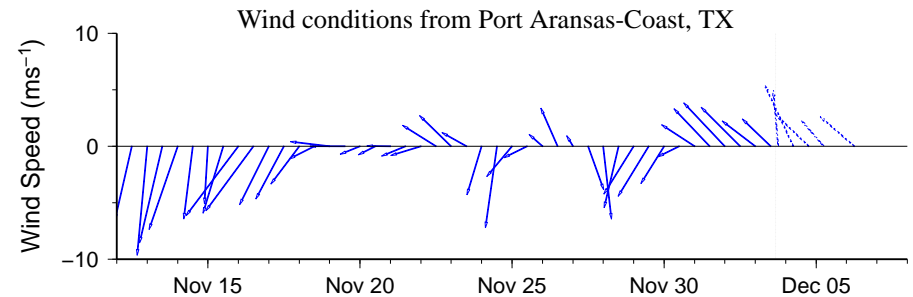
## Conditions Report

There is currently no indication of a harmful algal bloom of *Karenia brevis* (commonly known as Texas red tide) at the coast in Texas. No respiratory impacts are expected alongshore Texas today through Monday, December 10. For information on area shellfish restrictions, contact the Texas Department of State Health Services.

## Analysis

There is currently no indication of a harmful algal bloom of *Karenia brevis* at the coast in Texas. Recent MODIS imagery (12/2, shown left) is partially obscured by clouds along- and offshore from the Matagorda to Mustang Island regions, limiting analysis. Elevated chlorophyll (2-6  $\mu\text{g/L}$ ) is visible stretching along- and offshore from Sabine Pass to the Padre Island region. Elevated chlorophyll is not indicative of the presence of *K. brevis* and is most likely due to the resuspension of benthic chlorophyll and sediments along the coast. Forecast models based on predicted near-surface currents indicate a potential maximum transport of 20 km south from the Port Aransas region from December 2-6.

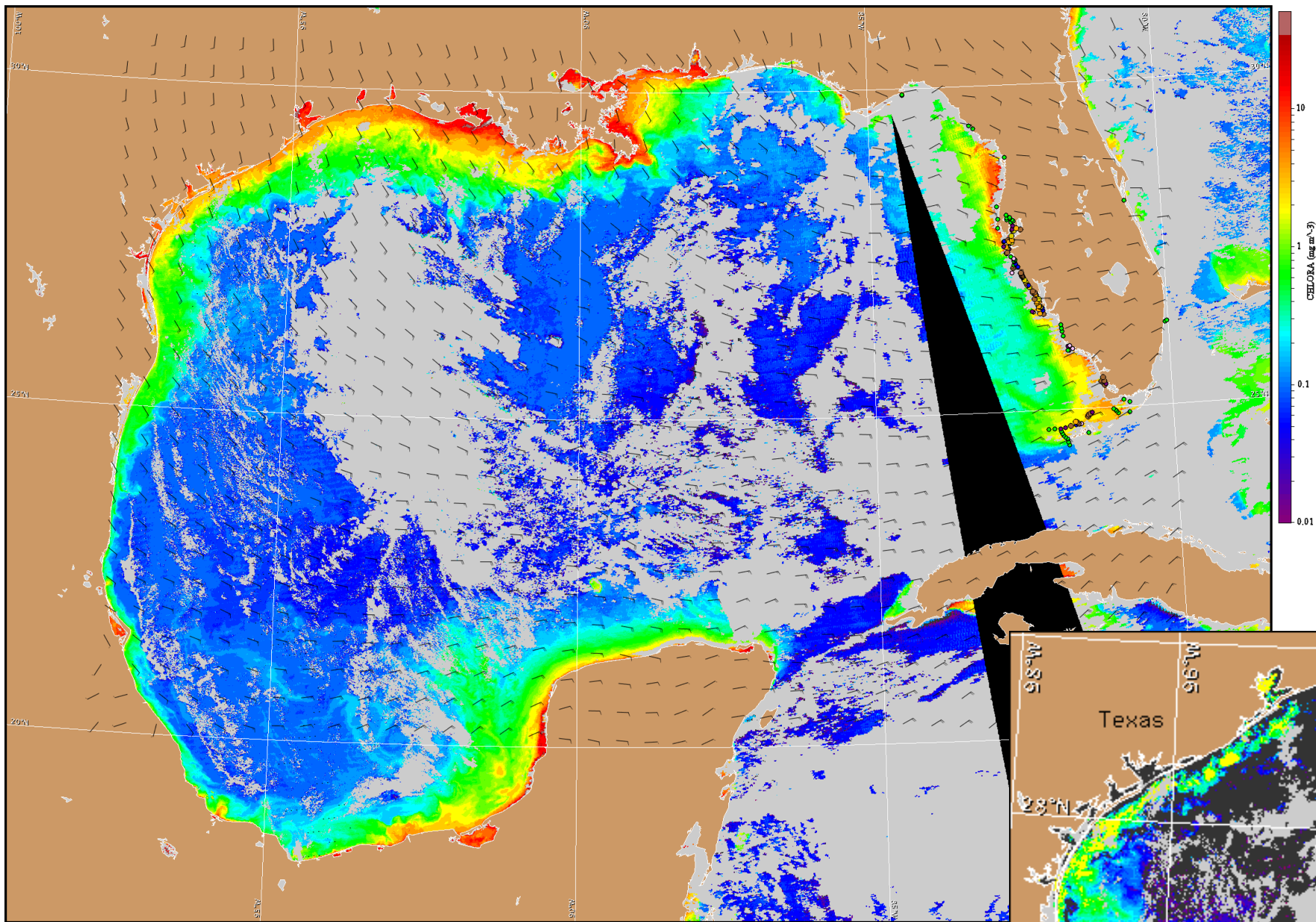
Kavanaugh, Davis



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

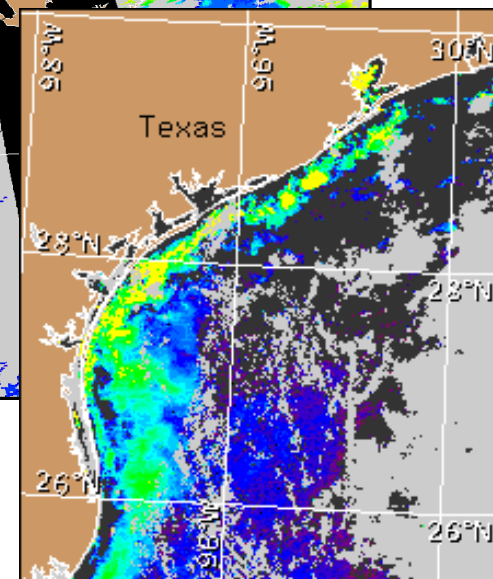
## Wind Analysis

**Port Aransas:** Southeast winds (5-15 kn, 3-8 m/s) today and Tuesday becoming east winds (5-10 kn, 3-5 m/s) Tuesday night. Northeast to north winds (5-10 kn) Wednesday becoming east winds (5-10 kn) Wednesday night. Southeast to south winds (5-15 kn) Thursday through Friday.



Satellite chlorophyll image and forecast winds for December 4, 2012 06Z with cell concentration sampling data from November 24 to 29 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

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Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).